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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/541,672	08/16/2006	Hugues Lefevre	4004-070-30 NATL	4087
30448 7590 10/24/2008 AKERMAN SENTERFITT			EXAMINER	
P.O. BOX 3188		GREEN, TELLY D		
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			2822	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

	Application No.	Applicant(s)	
	10/541,672	LEFEVRE, HUGUES	
Office Action Summary	Examiner	Art Unit	
	TELLY D. GREEN	2822	
The MAILING DATE of this communication ap Period for Reply	pears on the cover sheet with the c	correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMUNICATION 136(a). In no event, however, may a reply be tir will apply and will expire SIX (6) MONTHS from te, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).	
Status			
Responsive to communication(s) filed on 14 ⊆ This action is FINAL . 2b) This 3) Since this application is in condition for allowed closed in accordance with the practice under	s action is non-final. ance except for formal matters, pro		
Disposition of Claims			
4) Claim(s) 22-32 is/are pending in the application 4a) Of the above claim(s) is/are withdra 5) Claim(s) is/are allowed. 6) Claim(s) 22-32 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or are subject to restriction and/or are subject to by the Examin 10) The drawing(s) filed on is/are: a) accompany are subjected to by the Examin are subjected to by the Examin 10) The drawing(s) filed on is/are: a) accompany are subjection to the subjection to the subjection to the subjection to the subjection and subjection to the subjection to the subjection are subjected to by the Examin are subjection to the subjection to the subjection to the subjection to the subjection and subjection to the subjection to the subjection to the subjection and subjection to the subjection are subjection to the subjection to the subjection to the subjection to the subjection are subjection to the subje	er. cepted or b) objected to by the editawing(s) be held in abeyance.	e 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	•	, ,	
Priority under 35 U.S.C. § 119	.xammer. Note the attached Office	ACION OF IONI P 10-152.	
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureat * See the attached detailed Office action for a list	nts have been received. nts have been received in Applicationity documents have been received au (PCT Rule 17.2(a)).	on No ed in this National Stage	
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Di 5) Notice of Informal F 6) Other:	ate	

DETAILED ACTION

New claim 32 has been added. Action on the merits is as follows:

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims **22-26**, **31 and 32** is rejected under 35 U.S.C. 102(e) as being anticipated by Varaprasad et al. (Varaprasad) (US Publication **2003/0087107 A1**).

In regards to claim 22, Varaprasad discloses (paragraphs 150- 156, Figs. 1,2) two glass sheets (items 2 and 3) (paragraphs 208, 223, 225, 238, 246, 253, 260, 268, 290, 312, 323, 331) and one or more thermoplastic interlayers (paragraph 124, 149, 158), characterized in that light emitting diodes are inserted between the two glass sheets (paragraphs 162, 188), a connecting circuit (item 4) being formed from a least one conductive layer deposited on one face of the glass sheets or of the thermoplastic interlayers (paragraphs 150- 156, Figs. 1,2), the conductive layer being divided in at least 2 distinct areas (paragraph 167, Fig. 1, item 4), each area being bound to an electrode (item 4, paragraph 167).

In regards to claim 23 Varaprasad discloses (paragraphs 152, 167, Fig. 1) that the conductive layer (item 4) has a thickness in the range of between 0.02 and 0.5 micro/between 0.2 and 0.4 micro.

However, the applicant has not established the critical nature of the conductive layer having a thickness in the range of between 0.02 and 0.5 micro/between 0.2 and 0.4 micro. "The law is replete with cases in which the difference between the claimed invention and the prior art is some range or other variable within the claims. In such a situation, the applicant must show that the particular range is critical, generally by showing that the claimed range achieves unexpected results relative to the prior art range." In re Woodruff, 919 F.2d 1575, 16 USPQ2d 1934 (Fed. Cir.1990).

In regards to claim 24, Varaprasad discloses (paragraphs 153, 155) that the conductive layer has a resistance in the range of between 2 and 80, 10 and 80, or 12 and 20 Omega/sq..

However, the applicant has not established the critical nature of the conductive layer having a resistance in the range of between 2 and 80, 10 and 80, or 12 and 20 Omega/sq. "The law is replete with cases in which the difference between the claimed invention and the prior art is some range or other variable within the claims. In such a situation, the applicant must show that the particular range is critical, generally by showing that the claimed range achieves unexpected results relative to the prior art range." In re Woodruff, 919 F.2d 1575, 16 USPQ2d 1934 (Fed. Cir.1990).

In regards to claim 25, Varaprasad discloses (paragraphs 173-175, Fig. 1) that the conductive layer is applied on the transparent substrate and zones have been insulated from the rest of the layer by narrow insulating bands.

In regards to claim 26, Varaprasad discloses (paragraphs 173-175) that a) the insulating bands have a width in the range of between 0.01 and 3 mm, (b) the insulating bands

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have a width in the range of between 0.05 and 1.5, and (c) the insulating bands have a width in the range of between 0.1 and 0.8 mm.

In regards to claim 31, Varaprasad discloses (paragraphs 173-175, 189, Fig. 1) that a switch actuating the power supply of the electronic component is formed by a zone of the conducting layer insulated from the rest of the conductive layer by narrow insulating bands.

In regards to claim 32, Varaprasad discloses (paragraphs (paragraph 124, 149, 158), 162, 188, Fig. 1) in which LEDs are inserted in at least on of said one or more thermoplastic interlayers during the production of the laminated glazing.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claim **27** is rejected under 35 U.S.C. 103(a) as being unpatentable over Varaprasad et al. (Varaprasad) **(US Publication 2003/0087107 A1)**.

In regards to claim 27, Varaprasad discloses electronic components (paragraphs 162, 188), but does not specifically disclose the electrical components have a thickness less than or equal to 3mm or less than or equal to 0.1 and 1.2mm.

However, the applicant has not established the critical nature of the electrical components having a thickness less than or equal to 3mm or less than or equal to 0.1 and 1.2mm. "The law is

replete with cases in which the difference between the claimed invention and the prior art is some range or other variable within the claims. In such a situation, the applicant must show that the particular range is critical, generally by showing that the claimed range achieves unexpected results relative to the prior art range." In re Woodruff, 919 F.2d 1575, 16 USPQ2d 1934 (Fed. Cir.1990). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have various ranges for the purpose of having a sufficient thickness that would allow the use of more electronic devices/components (LEDs).

Claims **28-30** are rejected under 35 U.S.C. 103(a) as being unpatentable over Varaprasad et al. (Varaprasad) **(US Publication 2003/0087107 A1)**, in view of Schaffer **(US Patent 6,283,613 B1)**.

In regards to claim 28, Varaprasad discloses several LED's semiconductor chips (paragraphs 162, 188), but does not specifically disclose a casing.

Schaffer discloses an array of LED's in a casing (col. 4, lines 51-55, claim 1).

Therefore it would have been obvious to on of ordinary skill at the time of the invention to combine the teachings above for the purpose of luminosity, protection, space, cost and a thermal connection for heat conduction away from the LED and semiconductor.

In regards to claim 29, Varaprasad's invention as modified by Schaffer discloses the claimed invention except the casing is dimensioned such that the length and/or a width are at least 10/20/40-times larger than it's thickness.

However, the applicant has not established the critical nature of the length and/or a width being at least 10/20/40-times larger than its thickness (open ended range). "The law is replete with cases in which the difference between the claimed invention and the prior art is some range or other

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variable within the claims. In such a situation, the applicant must show that the particular range is critical, generally by showing that the claimed range achieves unexpected results relative to the prior art range." In re Woodruff, 919 F.2d 1575, 16 USPQ2d 1934 (Fed. Cir.1990).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have various ranges for the purpose providing a case with the necessary length/width to cover or protect the electronic components/chips.

In regards to claim 30, Varaprasad's invention as modified Schaffer discloses the claimed invention but does not specifically disclose that the casing is dimensioned such that the length and/or a width in the range between 5 and 100mm/15 and 75mm/25 and 50mm.

However, the applicant has not established the critical nature of the casing having dimensions such that the length and/or a width are in a range between 5 and 100mm/15 and 75mm/25 and 50mm. "The law is replete with cases in which the difference between the claimed invention and the prior art is some range or other variable within the claims. In such a situation, the applicant must show that the particular range is critical, generally by showing that the claimed range achieves unexpected results relative to the prior art range." In re Woodruff, 919 F.2d 1575, 16 USPQ2d 1934 (Fed. Cir.1990). Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to have various ranges for the purpose providing a case with the necessary length/width to cover or protect the electronic components/chips.

Response to Arguments

Applicant's arguments with respect to claims 22-32 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. The following references are cited for disclosing related limitations of the applicant's claimed and disclosed invention.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to TELLY D. GREEN whose telephone number is (571)270-3204. The examiner can normally be reached on Monday thru Friday 7:30 AM - 5:00 PM EST..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zandra Smith can be reached on 571-272-2429. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/Telly D Green/ Examiner, Art Unit 2822 October 17, 2008